

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1850	((hetero\$1structure or hetero\$1junction) with (quantum near well))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:24
L2	473	((active or emitter or emitting) near layer) with (hetero\$1structure or hetero\$1junction) with (quantum near well))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:33
L3	5	((active or emitter or emitting) near layer) with (hetero\$1structure or hetero\$1junction) with (homo\$1junction) with (well or MQW or SQW))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:30
L4	0	((active or emitter or emitting) near layer) with (homo\$1junction) with (homo\$1geneous))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:34
L5	334	((active or emitter or emitting) near layer) with (homo\$1geneous))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:34
L6	4	5 and (homo\$1junction)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:49
L8	334	((active emitter emitting) near layer) with (homo\$1geneous)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:57
L9	130	8 and GaP	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:50
L10	204	((active emitter emitting) near layer) with ((homo\$1geneous) and (hetero\$1 structure or (hetero near structure) or hetero\$1junction or (hetero near junction)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:59
L11	45	((active emitter emitting) near layer) with ((homo\$1geneous) and (hetero\$1structure or (hetero near structure) or hetero\$1junction or (hetero near junction)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:10
L12	2257	(confinement or clad or cladding) with (multiple or two or (first with second)) with dop\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:13
L13	113	12 and ((silicon or Si) with (tellurium or Te))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:12
L14	124	(confinement or clad or cladding) with ((multiple or two or (first and second)) near2 dopant)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:17

## EAST Search History

L15	280	(confinement or clad or cladding) with (Silicon or Si) with (Sulfur or selenium or Se or nitrogen or tellurium or Te)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:19
L16	38	(confinement or clad or cladding) with (dop\$3 near2 (Silicon or Si)) with (dop\$3 near (Sulfur or selenium or Se or nitrogen or tellurium or Te))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:26
L17	1770	(confinement or clad or cladding) with (dop\$3 near4 (Silicon or Si))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:26
L18	24	((confinement or clad or cladding) with (dop\$3 near4 (Silicon or Si))) and ((confinement or clad or cladding) with ((multiple or double or two) near2 dop\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 18:32
L19	168	AlGaInP and (un\$1doped with (wave\$1guide or guide))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 19:00
L20	3	AlGaInP and (dop\$3 with (Te or tellurium or selenium) with (wave\$1guide or guide))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 19:04
L21	50	(dop\$3 with (Te or tellurium or selenium) with (wave\$1guide or guide))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 19:08
L22	12	(impurity with (Te or tellurium or selenium) with (wave\$1guide or guide))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 19:08
L23	5008	372/45.ccls. 257/79,94,102-103.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/12 20:21
S1	2	"6081540".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 14:57
S2	2	"313993".ap.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 14:57

## EAST Search History

S3	3	"10313993"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 15:03
S4	7	"19756856"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:49
S5	11	"1079444"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:58
S6	19	(active with dop\$3 with telluride)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 15:16
S7	39	(active with dop\$3 with tellurium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 15:52
S8	829	(active with dop\$3) and (cladding with confinement)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 15:26
S9	198	(active same (confinement or cladding) same (wave\$1guid or "wave guide"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 16:44
S10	57	S9 and (active near4 dop\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 15:57

## EAST Search History

S11	13	(active with dop\$3 with (S or Se or Te)) and (confinement or cladding) and (wave\$1guid or "wave guide")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 16:35
S12	5	(active with dop\$3 with (Selenium or Se or Te or tellerium)) and (confinement or cladding) and (wave\$1guid or "wave guide")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 16:46
S13	6	S9 and (active with homogeneous)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 16:45
S14	12	(active with homogeneous) and (confinement or cladding) and (wave\$1guid or "wave guide")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 16:50
S15	200	(active with homogeneous) and (confinement or cladding)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 16:59
S16	1186	(active with (chlorine or silicon)) and (confinement or cladding)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 17:00
S17	222	(active with dop\$3 with (chlorine or silicon)) and (confinement or cladding)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 17:00
S18	0	(active with dop\$3 with (chlorine or silicon)) and (cladding)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 17:00

## EAST Search History

S19	355	(active with dop\$3 with (chlorine or silicon)) and (cladding)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 17:01
S20	1	(active with dop\$3 with (chlorine and silicon)) and (cladding)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:00
S21	0	(active near6 dop\$3) and (cladding with dop\$3 with (chlorine and silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:01
S22	13	(active with dop\$3) and (cladding with dop\$3 with ((chlorine or Cl) and (Si or silicon)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:16
S23	275	(active with dop\$3 with (tellurium or Te or selenium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:18
S24	45	S23 and (clad or cladding or confinement) with dop\$3 with (Si or silicon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:18
S25	4	"0762516"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 18:49
S26	15	(double near (hetero or heterojunction)) and ((emitter or emission or active) with (dop\$3) with (Te or tellerium or selenium)) and ((clad or cladding) with dop\$3 with (Si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:08

## EAST Search History

S27	54	((emitter or emission or active) with (dop\$3) with (Te or tellerium or selenium)) and ((clad or cladding) with dop\$3 with (Si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:13
S28	493	((emitter or emission or active) near3 dop\$3) and ((clad or cladding) with dop\$3 with (Si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:13
S29	458	((emitter or active) near3 dop\$3) and ((clad or cladding) with dop\$3 with (Si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:14
S30	317	((emitter or active) near2 dop\$3) and ((clad or cladding) with dop\$3 with (Si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:14
S31	93	S30 and (wave\$1guide or "wave guide")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:14
S32	364	((emitter or emitting or active) near2 dop\$3) and ((clad or cladding) with dop\$3 with (Si or silicon))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:14
S33	98	S32 and (wave\$1guide or "wave guide")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 19:14

## EAST Search History

S34	24	("4881238"   "4961197"   "5073892"   "5173912"   "5175740"   "5247530"   "5436924"   "5717804"   "5745625"   "5751753"   "5764676"   "5790302"   "5841802"   "5845030"   "5926493"   "5930430"   "5993073"   "6072817"   "6081541"   "6118800"   "6252895"   "6337868"   "6400736"   "6472691").PN. OR ("6912237").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 19:53
S35	11	("5578839"   "5684309"   "5945689"   "6153894"   "6163038"   "6288416").PN. OR ("6657234").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 20:57
S36	0	butendeich.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 20:58
S37	1572	linder.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 20:58
S38	13	S37 and osram.as.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 20:59
S39	53	((active or emitter or emitting or emission) with (clad or cladded or cladding or confinement) with (different) with (dopant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:01
S40	13	((active or emitter or emitting or emission) with (clad or cladded or cladding or confinement) with (different near3 dopant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:06
S41	2324	((active or emitter or emitting or emission) near2 (dop\$3)) and (clad or cladded or cladding or confinement) and ((active or emitter or emitting or emission) (different near2 dopant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:08
S42	76	((active or emitter or emitting or emission) near2 (dop\$3)) and (clad or cladded or cladding or confinement) and ((active or emitter or emitting or emission) same (different near2 dopant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:08
S43	44	((active or emitter or emitting or emission) near2 (dop\$3)) and (clad or cladded or cladding or confinement) and ((active or emitter or emitting or emission) with (different near2 dopant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:19

## EAST Search History

S44	65	((active or emitter or emitting or emission) near4 (Te or tellurium or selenium)) and ((clad or cladded or cladding or confinement) with (Si or silicon))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:25
S45	21	("4570172"   "5198690").PN. OR ("6337536").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:54
S46	1	"6081540".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 21:54
S47	16	("6015719").PN. OR ("6081540").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/11 22:02
S48	16	("6015719").PN. OR ("6081540").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 09:28
S49	2262	((active or emitter) same (wave\$1guide or guide) same (confinement or confin\$3 or clad or cladded or cladding)) and ((active or emitter) with (dop\$3 or impurities))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 09:31
S50	1287	((active or emitter) same (wave\$1guide or guide) same (confinement or confin\$3 or clad or cladded or cladding)) and ((active or emitter) with (dop\$3 or impurities) with (Te or N or nitrogen or tellurium))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 09:34
S51	77	((active or emitter) same (wave\$1guide or guide) same (confinement or confin\$3 or clad or cladded or cladding)) and ((active or emitter) with (dop\$3 or impurities) with (Te or selenium or nitrogen or tellurium))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 11:47
S52	0	(homogeneous with AlGaInP)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 11:54
S53	0	(homogeneous with AlGaIn)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 11:55
S54	0	(homogeneous with InGaAlP)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 11:55
S55	334	(homogeneous with ((active or emitter or emitting) near layer))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/12 17:22